

CRYOGENIC SYSTEMS UPDATE

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REBEL**

OUTLINE

- **Update on procurement, particularly the compressor**
- **Progress on drafting and welding**
- **Update on LAPD**

PROCUREMENT

THE COMPRESSOR

- It's basically built and should have been mechanically tested last week
- Assuming the test went well, it should be here on time by the end of the month
- Jim is getting weekly updates on its progress from Fluitron, Inc.



MILESTONES

Milestone	Level	Scheduled Date	Anticipated Date
Begin Welding Piping Subassemblies	3	April 30, 2013	Started October 8, 2012
Cryo Controls Ready for Installation	2	August 5, 2013	May 24, 2013
Cryo Skid Installation Complete	2	December 16, 2013	May 10, 2013
Complete Pre-assembly of Cryogenic System	4	April 26, 2013	April 26, 2013
ODH Analysis Completed by Cryo Safety Review Panel	2	May 23, 2013	February 28, 2013

UPDATES

- **Planning on test run in June**
- **Safety meeting last Friday, ground floor analysis submitted for gas/liquid nitrogen**
- **Feedthroughs for RTDs ready to be soldered**
- **PLCs are here and mounted in cabinets, performing tests with them now**

UPDATES

- **For welding, we have 4 left for insulated Ar piping and 3 left for the buffer dewar**
- **Have continued cleaning pipes and welding, good progress has been made**
- **Aim to be done with cryogenics drafting by the end of the month**

LAB F



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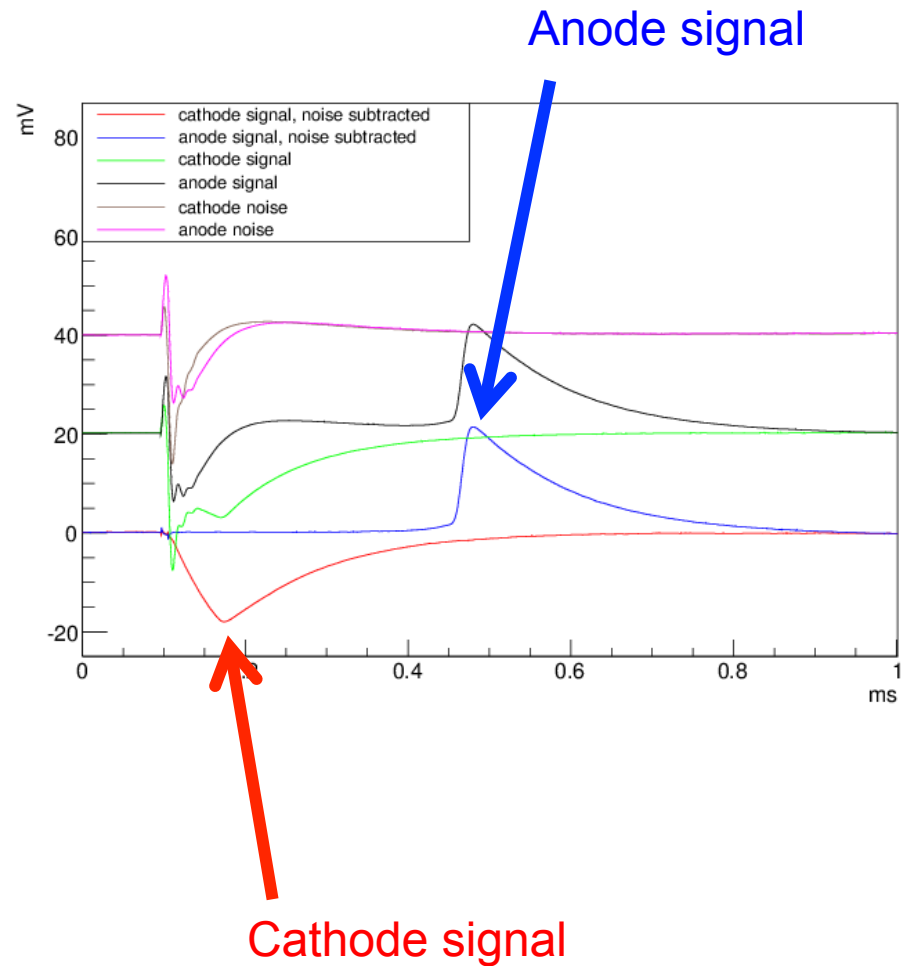
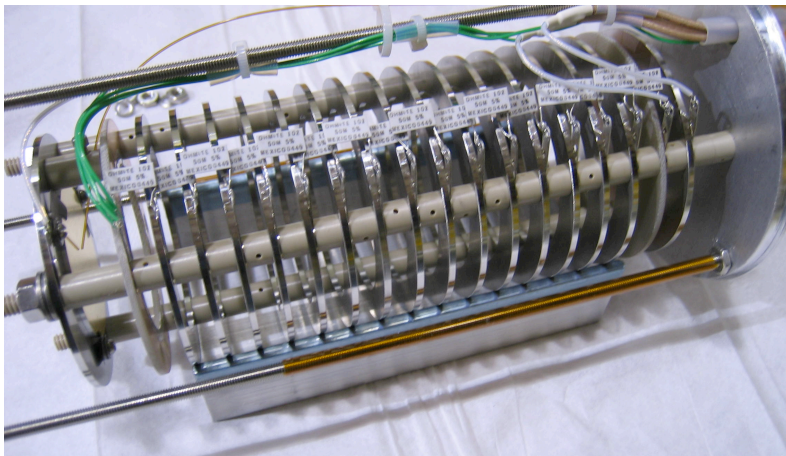


LAPD UPDATE

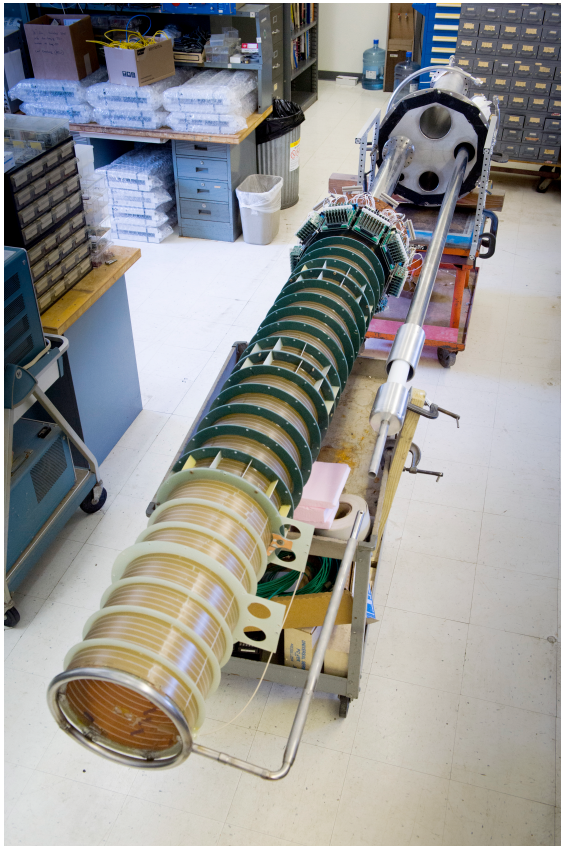
- Operation at LAPD are going well
- Purity monitors (identical to those going into MicroBooNE) have been recording lifetimes of 4 ms, no issues with the new DAQ system
- The Long Bo TPC has been taking data since January, same cold electronics as MicroBooNE
- HV on Long Bo has been holding at 60 kV
- Filters have still not saturated yet after 5 weeks, it took 2 weeks during the last run

PURITY MONITORS

We recently overhauled the DAQ system, replacing an oscilloscope with a PC and digitizer card



LONG BO



- Long Bo has successfully seen tracks
- Triggering with cosmic ray muon counters
- Aiming to measure purity

